Title (en)
DROPLET DEPOSITION APPARATUS AND METHODS OF DRIVING THEREOF

Title (de)
TROPFENABSCHEIDUNGSVORRICHTUNG UND VERFAHREN ZUR ANSTEUERUNG DAVON

Title (fr)
APPAREIL DE DÉPÔT DE GOUTTELETTES ET SON PROCÉDÉ D'ENTRAÎNEMENT

Publication
EP 3393811 B1 20210721 (EN)

Application
EP 16822721 A 20161221

Priority
• GB 201522543 A 20151221
• GB 2016054027 W 20161221

Abstract (en)
[origin: GB2545671A] There is provided a droplet deposition apparatus (50, Fig.5a) comprising: control circuitry (52, Fig.5a) configured to generate a common drive waveform 29; a droplet deposition head (1, Fig.1) having one or more actuator elements (4, Fig.1) configured to be driven in response to drive pulses derived from the common drive waveform. The common drive waveform comprises a plurality of pixel periods 27(i), 27(ii), 27(iii). The pixel periods comprise a firing phase t(fire) and a non-firing phase t(del). Each firing phase comprises at least one firing pulse 30(i), 30(ii) and each non firing phase comprises at least one non-firing pulse 30(iii). The characteristics of each non-firing pulse are defined in response to data in storage on the droplet deposition apparatus, and wherein the firing or non-firing pulses are selectively applied as drive pulses to the one or more actuator elements in response to the data in storage. There is also provided a method and circuitry for driving one or more actuators of the droplet deposition apparatus in response to drive pulses from a common drive waveform.

IPC 8 full level
B41J 2/045 (2006.01)

CPC (source: EP GB KR US)
B41J 2/04536 (2013.01 - EP KR US); B41J 2/04581 (2013.01 - EP GB KR US); B41J 2/04588 (2013.01 - EP GB KR US);
B41J 2/04596 (2013.01 - EP GB KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
GB 201522543 D0 20160203; GB 2545671 A 20170628; GB 2545671 B 20190612; EP 3393811 A1 20181031; EP 3393811 B1 20210721;
JP 2019503898 A 20190214; JP 6905984 B2 20210721; KR 20180096668 A 20180829; US 10807359 B2 20201020;
US 2019001665 A1 20190103; WO 2017109493 A1 20170629

DOCDB simple family (application)
GB 201522543 A 20151221; EP 16822721 A 20161221; GB 2016054027 W 20161221; JP 2018532226 A 20161221;
KR 20187019342 A 20161221; US 201616064490 A 20161221